

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously Presented) A power supply circuit comprising:
at least one transformer that includes a primary winding and a secondary winding;
a primary side circuit including a primary side circuit carrier that includes a plurality of components at least a subset of which are substantially oriented in a first plane, the primary side circuit being electrically connected to the primary winding of the transformer;
a secondary side circuit including a secondary side circuit carrier that includes a plurality of components at least a subset of which are substantially oriented in a second plane substantially perpendicular to the first plane, the secondary side circuit being electrically connected to the secondary winding of the transformer.
2. (Previously Presented) The power supply circuit according to claim 3, wherein the plane defined by the components of the secondary side circuit carrier extends in a direction substantially transverse to the plane defined by the components of the primary side circuit carrier.
3. (Previously Presented) A power supply circuit comprising at least one transformer that includes a primary winding connected to a primary side circuit and a secondary winding connected to a secondary side circuit,
wherein components of the primary side circuit and components of the secondary side circuit are each connected to at least one separate circuit carrier, said circuit carriers being coupled with one another and wherein at least a subset of the components of the primary side circuit and at least a subset of the components of the secondary side circuit are arranged in at least two different planes,
wherein components of the primary side circuit are connected to a plurality of primary side circuit carriers.
4. (Previously Presented) The power supply circuit according to claim 3, wherein

the plurality of primary side circuit carriers are separated by an electrically insulating layer from the secondary side circuit carrier.

5. (Previously Presented) The power supply circuit according to claim 1, wherein at least one of the primary side circuit carrier and the secondary side circuit carrier comprises an integrated resistor.

6. (Original) The power supply circuit according to claim 1, wherein at least one of the circuit carriers comprises integrated capacitors of a medium dielectric strength.

7. (Previously Presented) The power supply circuit according to claim 6, wherein the integrated capacitors are produced as a monolayer structure.

8. (Previously Presented) The power supply circuit according to claim 6, wherein the integrated capacitors are produced as a multilayer structure.

9. (Original) The power supply circuit according to claim 6, wherein the integrated capacitors can be produced by introducing a dielectric precursor into recesses of the circuit carrier.

10. (Original) The power supply circuit according to claim 1, wherein at least one of the circuit carriers comprises integrated capacitors of a high dielectric strength.

11. (Previously Presented) The power supply circuit according to claim 10, wherein the integrated capacitors are produced as a monolayer structure.

12. (Previously Presented) The power supply circuit according to claim 10, wherein the integrated capacitors are produced as a multilayer structure.

13. (Original) The power supply circuit according to claim 10, wherein the integrated capacitors can be produced by introducing a dielectric precursor into recesses of the circuit

carrier.

14. (Previously Presented) The power supply circuit according to claim 1, wherein at least one of the circuit carriers comprises discrete active or passive components.

15. (Original) The power supply circuit according to claim 1, wherein the transformer is an electromagnetic transformer.

16. (Withdrawn) The power supply circuit according to claim 1, wherein the transformer is a piezoelectric transformer.

17. (Previously Presented) The power supply circuit according to claim 1, wherein at least one of the circuit carriers are produced from a ceramic material.

18. (Original) The power supply circuit according to claim 1, wherein at least one of the circuit carriers is designed such that it discharges dissipated heat produced during operation to the outside.

19. (Original) The power supply circuit according to claim 1, wherein the individual circuit carriers are mechanically connectable to one another by means of joint sintering, adhesive bonding or soldering.

20. (Original) The power supply circuit according to claim 1, wherein the individual circuit carriers are electrically connectable to one another through vias in at least one insulation layer.

21. (Previously Presented) The power supply circuit according to claim 1, wherein the power supply circuit is surrounded at least in part by an electrically insulating coating.

22. (Original) The power supply circuit according to claim 21, wherein the electrically insulating coating is formed by a casting material.

23. (Previously Presented) The power supply circuit according to claim 15, wherein the transformer includes a coil body, and wherein electrical components are integrated into the coil body of the transformer.

24. (Withdrawn) The power supply circuit according to claim 16, wherein electrical components are integrated into a transformer mounting of the transformer.

25. (Previously Presented) A method for producing a power supply circuit comprising at least one transformer that includes a primary winding and a secondary winding, a primary side circuit, and a secondary side circuit, said method comprising the following steps:

connecting components of the primary side circuit to at least one primary side circuit carrier, at least a subset of the components of the primary side circuit being substantially oriented in a first plane;

connecting components of the secondary side circuit to at least one separate secondary side circuit carrier, at least a subset of the components of the secondary side circuit being substantially oriented in a second plane;

coupling the primary side circuit with the primary winding of the transformer; and

coupling the secondary side circuit with the secondary winding of the transformer;

wherein the first plane is substantially perpendicular to the second plane.

26. (Previously Presented) A method for producing a power supply circuit comprising at least one transformer that includes a primary winding and a secondary winding, a primary side circuit, and a secondary side circuit, said method comprising the following steps:

connecting components of the primary side circuit to at least one primary side circuit carrier, at least a subset of the components of the primary side circuit being substantially oriented in a first plane;

connecting components of the secondary side circuit to at least one separate secondary side circuit carrier, at least a subset of the components of the secondary side circuit being substantially oriented in a second plane;

coupling the primary side circuit with the primary winding of the transformer; and
coupling the secondary side circuit with the secondary winding of the transformer;
wherein the first plane is substantially perpendicular to the second plane, and wherein
components of the primary side circuit are connected to a plurality of primary side circuit
carriers.

27. (Previously Presented) The method according to claim 25, wherein the at least
one primary side circuit carrier is separated from the at least one secondary side circuit carrier by
an electrically insulating layer.